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	Application No.	Applicant(s)	
Madian of Allows Lills	09/863,332 CHUNG ET AL.		
Notice of Allowability	Examiner	Art Unit	
	Dwayne K Handy '	1743	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT OF of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate commul RIGHTS. This application is su	this application. If not inclinication will be mailed in di	luded
1. This communication is responsive to the amendment filed		,	
2. The allowed claim(s) is/are <u>1-4</u> .			
3. The drawings filed on 24 May 2001 are accepted by the E	∃xaminer.		
 4. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have The copies not received: PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	ve been received. ve been received in Application ocuments have been received " of this communication to file a	n No I in this national stage appli	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv	es reason(s) why the oath or o	VINER'S AMENDMENT or declaration is deficient.	NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper		(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	I.84(c)) should be written on the the header according to 37 CFR	drawings in the front (not t t 1.121(d).	he back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATER	RIAL must be submitted	. Note the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Info	ormal Patent Application (P	TO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sun	nmary (PTO-413),	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit 	08), 7. ∐ Examiner's Aı	fail Date mendment/Comment	
F. L. L. EXAMINER'S COMMENT REPORTING REQUIREMENT for Deposit	8. ⊠ Examiner's Sf	tatement of Reasons for Al	llowance
of Biological Material	9. ☐ Other		•

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Allowable Subject Matter

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1. Claims 1-4 allowed.

2. The following is an examiner's statement of reasons for allowance. Applicant has claimed a microfluidic driving device comprised of the following elements: a substrate, a microchannel formed in the substrate, a first Venturi pump connected to the microchannel to generate a pumping force in a first direction in the microchannel when an airflow is applied to the first pump, a second Venturi pump connected to the microchannel to generate a pumping force in a second direction in the microchannel when an airflow is applied to the second pump, and an airflow supply connected to said first and second Venturi pumps to supply airflows to the pumps both together and separately. The Examiner did not find prior art that contains or suggests this combination of features. The Examiner considers the previously cited reference "Alajoki" to be the closest prior art. Alajoki teaches reversible flow in microchannels due to either electroosmotic pumps or pressure displacement pumps, but does not teach Venturi pumps.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwayne K Handy whose telephone number is (571)-272-1259. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on (571)-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DKH March 4, 2003

Supervisory Patent Examiner Technology Center 1700